

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference U30113PCT	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/EP2005/003161	International filing date (day/month/year) 24/03/2005	(Earliest) Priority Date (day/month/year) 26/03/2004	
Applicant CHARITE-UNIVERSITÄTSMEDIZIN BERLIN			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 07 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☒ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☒ in written format
 - ☒ in computer readable form
 - c. time of filing/furnishing
 - ☒ contained in the international application as filed
 - ☒ filed together with the international application in computer readable form
 - ☐ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

Use of galectin-2 or of a nucleic acid coding for galectin-2 or of its complementary strand, or of a nucleic acid hybridizing to such coding nucleic acid or its complementary strand, for the manufacture of a medicament for the treatment or prevention of a patient having a disease with impaired apoptosis of T-cells, macrophages and/or antigen-presenting cells, or for the manufacture of a medicament for the treatment or prevention of organ rejection in a patient having undergone organ transplantation, in particular solid organ transplantation.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K38/17 A61P37/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, PAJ, MEDLINE, EMBASE, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/023855 A1 (UNGER GRETCHEN ET AL) 5 February 2004 (2004-02-05) paragraphs '0005!, '0008!, '0014!; claims 2,4,7,9,11; table 4	1-36
X	DATABASE WPI Section Ch, Week 200335 Derwent Publications Ltd., London, GB; Class B04, AN 2003-367092 XP002292305 & WO 02/089831 A1 (PROTEGENE KK) 14 November 2002 (2002-11-14) abstract ----- -/--	1-36

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

3 June 2005

Date of mailing of the international search report

16/06/2005

Name and mailing address of the ISA

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Authorized officer

Pilling, S

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	"GALECTINS: A FAMILY OF ANIMAL SS-GALACTOSIDE-BINDING LECTINS" CELL, CELL PRESS, CAMBRIDGE, NA, US, vol. 76, 25 February 1994 (1994-02-25), pages 597-598, XP002922187 ISSN: 0092-8674 the whole document	1-36
X	LIU FU-TONG: "Galectins: A new family of regulators of inflammation" CLINICAL IMMUNOLOGY (ORLANDO), vol. 97, no. 2, November 2000 (2000-11), pages 79-88, XP001182659 ISSN: 1521-6616 * Introduction * page 80, column 2, line 30 - page 81, column 2, line 4	1-36
X	BAUM LINDA G ET AL: "Amelioration of graft versus host disease by galectin-1." CLINICAL IMMUNOLOGY (ORLANDO), vol. 109, no. 3, December 2003 (2003-12), pages 295-307, XP001206354 ISSN: 1521-6616 abstract	1-36
X	EMMANOUILIDES C ET AL: "Prevention of experimental acute GVHD with galectin-1 and effects on immunologic reconstitution" BLOOD, vol. 90, no. 10 SUPPL. 1 PART 1, 15 November 1997 (1997-11-15), page 205A, XP009048288 & 39TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF HEMATOLOGY; SAN DIEGO, CALIFORNIA, USA; DECEMBER 5-9, 1997 ISSN: 0006-4971 abstract	1-36
X	DELIOUKINA MARIA L ET AL: "Galectin-1 ameliorates the development and severity of GVHD in a murine model" BLOOD, vol. 94, no. 10 SUPPL. 1 PART 1, 15 November 1999 (1999-11-15), page 392a, XP009048287 & FORTY-FIRST ANNUAL MEETING OF THE AMERICAN SOCIETY OF HEMATOLOGY; NEW ORLEANS, LOUISIANA, USA; DECEMBER 3-7, 1999 ISSN: 0006-4971 abstract	1-36
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>PERILLO N L ET AL: "APOPTOSIS OF T CELLS MEDIATED BY GALECTIN-1" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 378, no. 6558, 14 December 1995 (1995-12-14), pages 736-739, XP002034768 ISSN: 0028-0836 abstract</p> <p>-----</p>	1-36

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004023855	A1	05-02-2004	
		AU 2003221703 A1	27-10-2003
		AU 2003224876 A1	27-10-2003
		AU 2003231994 A1	27-10-2003
		EP 1497442 A2	19-01-2005
		WO 03087389 A2	23-10-2003
		WO 03087323 A2	23-10-2003
		WO 03087021 A2	23-10-2003
		US 2004038303 A1	26-02-2004
		US 2004038406 A1	26-02-2004
WO 02089831	A1	14-11-2002	
		JP 2002322082 A	08-11-2002